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Published:

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- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of
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(54) Title: COMPOSITIONS FOR USE IN IDENTIFICATION OF ADVENTITIOUS CONTAMINANT VIRUSES

(57) Abstract: The present invention provides oligonucleotide primers, compositions, and kits containing the same for rapid identification of viruses by amplification of a segment of viral nucleic acid followed by molecular mass analysis.

International application No PCT/US2006/061307

A. CLASSI INV.	FICATION OF SUBJECT MATTER C12Q1/70				
According to	o international Patent Classification (IPC) or to both national classi	fication and IPC			
	SEARCHED				
Minimum do C12Q	ocumentation searched (classification system followed by classific	at'on symbols)			
Documenta	tion searched other than minimum documentation to the extent the	at such documents are included in the fields s	earched		
Electronic	data base consulted during the International search (name of data	base and, where practical, search terms used	i)		
EPO-In	ternal, WPI Data, Sequence Search				
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.		
Α	WO 2005/075686 A (ROCHE DIAGNOS [DE]; HOFFMANN LA ROCHE [DE]; S STEFAN) 18 August 2005 (2005-08 example 1	CHORLING	1-67		
X	JURINKE C ET AL: "Application PCR and mass spectrometry for D virus detection: HBV-DNA detect majority of isolated anti-HBc p sera" GENETIC ANALYSIS: BIOMOLECULAR ENGINEERING, ELSEVIER SCIENCE P US, vol. 14, no. 3, January 1998 (1 pages 97-102, XP004114932 ISSN: 1050-3862 abstract	NA-based ed in the ositive UBLISHING,	1		
		-/			
	than do not be and listed in the continue of Sec. 2	V Soo and the second			
<u> </u>	ther documents are listed in the continuation of Box C.	See patent family annex.			
"A" docum	categories of cited documents: ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international date	 'T' later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention. 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to 			
 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means 		involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu- ments, such combination being obvious to a person skilled			
	ent published prior to the international filling date but than the priority date claimed	in the art. '&' document member of the same patent family			
Date of the	actual completion of the International search	Date of mailing of the international se	arch report		
1	16 October 2007	09/01/2008			
Name and	maiing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk	Authorized officer			
	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Cornelis, Karen			

International application No.

PCT/US2006/061307

Вох	No. I	Nucleotide and/or amino acid sequence(s) (Continuation of Item 1.b of the first sheet)
1,	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, the international search was carried out on the basis of:
	a.	type of material X a sequence listing table(s) related to the sequence listing
!	b.	format of material X on paper X in electronic form
	c.	time of filing/furnishing Contained in the international application as filed filed together with the international application in electronic form furnished subsequently to this Authority for the purpose of search
2.		In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been flied or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3.	Addi	tional comments:

international application No. PCT/US2006/061307

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No. III Observations where unity of Invention is lacking (Continuation of Item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
As only some of the required additional search fees were timely paid by the applicant, this international search reportcovers only those claims for which fees were paid, specifically claims Nos.:
4. X No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-13, 35, 60-66 (partially) and 14-17, 36-42, 67 (completely)
Remark on Protest The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee. The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-13, 35,60-66 (partially) and 14-17, 36-42,67 (completely)

Primers for the amplification of members of the Dependovirus genus, the primers having a sequence as in SEQ ID NOs 160, 161, 163, 164, 165, 168, 329, 330, 332, 333, 334, 336. Methods, kits and compositions using these primers.

2. claims: 1-13, 35 (partially) and 18,19 (completely)

primers and methods for the amplification and identification of Erythrovirus and Parvovirus genera.

3. claims: 1-9,20,21, 52, 60-66(partially) and 22-25, 53-59 (completely)

Primers for the amplification of members of the Pneumoviriniae sub family, the primers having a sequence as in SEQ ID NO 103-113,274-281. Methods, kits and compositions using these primers.

4. claims: 1-9,20,21,52 (partially) 26,27,28 (completely)

Primers and methods for the amplification and identification of Respirovirus, Avulavirus and Rubulavirus genera.

5. claims: claims 1-9, 29, 60-66 (partially) and 30,-34,43-51, 68 (completely)

Primers for the amplification of HBV, the primers having a sequence of portions of SEQ ID NO 338, or as in 66-75,235-244. Methods, primers and kits using these primers.

international application No
PCT/US2006/061307

ategory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
		1
χ	SAMPATH RANGARAJAN ET AL: "Rapid identification of emerging pathogens:	
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1	WO 02/099130 A (UNIV LONDON [GB]; GRIFFITHS DAVID JOHN [GB]; KELLAM PAUL	1–67
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Y	KATANO H ET AL: "IDENTIFICATION OF	3-17,
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Information on patent family members

International application No PCT/US2006/061307

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